

Title (en)
VEHICLE CONTROL DEVICE, VEHICLE CONTROL METHOD, VEHICLE MOTION CONTROL SYSTEM, AND LANE ESTIMATION DEVICE

Title (de)
FAHRZEUGSTEUERUNGSVORRICHTUNG UND -VERFAHREN, FAHRZEUGBEWEGUNGSSTEUERUNGSSYSTEM UND SPURSCHÄTZUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE DU VÉHICULE, PROCÉDÉ DE COMMANDE DU VÉHICULE, SYSTÈME DE COMMANDE DU MOUVEMENT DU VÉHICULE ET DISPOSITIF D'ESTIMATION DE VOIE

Publication
EP 4030407 A4 20221109 (EN)

Application
EP 20863379 A 20200604

Priority
• JP 2019165551 A 20190911
• JP 2020022156 W 20200604

Abstract (en)
[origin: EP4030407A1] A vehicle control device, a vehicle control method, a vehicle motion control system, and a lane estimation device according to the present invention obtain first information on lane markings defining a lane in which a vehicle travels based on external information obtained from an external recognition unit, obtain second information on a curvature of the lane based on information on a road shape obtained from a road shape information acquisition unit, obtain third information on a behavior of the vehicle based on a physical quantity that is related to a motion state of the vehicle and obtained from a vehicle motion state detection unit, and estimate lane information including information on curvatures of the lane markings and information on relative positions of the vehicle with respect to the lane markings based on the first information, the second information, and the third information.

IPC 8 full level
G08G 1/16 (2006.01); **B60W 30/12** (2020.01); **B60W 40/072** (2012.01); **B62D 6/00** (2006.01); **G01C 21/26** (2006.01); **G06V 20/56** (2022.01)

CPC (source: CN EP US)
B60W 10/20 (2013.01 - US); **B60W 30/12** (2013.01 - CN EP US); **B60W 40/072** (2013.01 - CN US); **B60W 40/105** (2013.01 - US); **B60W 50/16** (2013.01 - CN); **B62D 6/00** (2013.01 - CN); **B62D 15/025** (2013.01 - EP); **G01C 21/26** (2013.01 - CN); **G06V 10/993** (2022.01 - EP); **G06V 20/58** (2022.01 - US); **G06V 20/588** (2022.01 - EP US); **G08G 1/16** (2013.01 - CN); **G08G 1/167** (2013.01 - EP); **B60W 2420/403** (2013.01 - US); **B60W 2520/10** (2013.01 - CN EP); **B60W 2520/125** (2013.01 - US); **B60W 2520/14** (2013.01 - US); **B60W 2540/18** (2013.01 - CN); **B60W 2552/30** (2020.02 - EP US); **B60W 2552/53** (2020.02 - EP US); **B60W 2554/80** (2020.02 - US); **B60W 2554/802** (2020.02 - EP); **B60W 2556/20** (2020.02 - EP); **B60W 2556/25** (2020.02 - US); **B60W 2556/50** (2020.02 - EP); **B60W 2710/202** (2013.01 - US)

Citation (search report)
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• [X] US 2012314070 A1 20121213 - ZHANG WENDE [US], et al
• [A] US 2010253598 A1 20101007 - SZCZERBA JOSEPH F [US], et al
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• See also references of WO 2021049108A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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DOCDB simple family (application)
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